

WHAT IS CLAIMED IS:

1. Road test simulator comprising:

four rollers, each of which has an irregular surface cover, and

four asynchronous motors, each of which drives a respective one of the rollers.
2. Road test simulator as claimed in Claim 1, wherein the rollers have
respective widths greater than twice a tire width of the tires of a vehicle tested by the
road test simulator.
3. Road test simulator as claimed in Claim 1, wherein the rollers have
respective widths within a range of 90 cm to 110 cm.
4. Road test simulator as claimed in Claim 1, wherein the rollers each
comprise a plurality of coating rows extending in axial direction along respective
outer circumferences of the rollers.
5. Road test simulator as claimed in Claim 4, wherein the coating rows
comprise pavement rows made of stone or metal.
6. Road test simulator as claimed in Claim 5, wherein each pavement row
comprises a plurality of paving stones arranged side by side.
7. Road test simulator as claimed in Claim 6, wherein the paving stones
arranged side by side differ in relative height.
8. Road test simulator as claimed in Claim 5, wherein paving stones
belonging to adjacent pavement rows differ in relative height.
9. Road test simulator as claimed in Claim 6, wherein the pavement rows
simulate a cobble stone road surface.

10. Road test simulator as claimed in Claim 1, further comprising inverters respectively controlling the asynchronous motors.

11. Road test simulator as claimed in Claim 1, further comprising control units, each of which controls speed and angular synchronism of a respective one of the rollers.

12. Road test simulator as claimed in Claim 11, wherein each of the rollers comprises a reference position sensor.

13. Road test simulator as claimed in Claim 11, wherein the control units are configured to control the asynchronous motors to operate with a selectable angle offset between the rollers.

14. Road test simulator as claimed in Claim 11, wherein the control units provide one of the rollers a master function and remaining ones of the rollers a slave function.

15. Road test simulator as claimed in Claim 11, wherein the control units provide two operating modes, wherein:

in the first operating mode, the rollers are driven by the asynchronous motors and the motor vehicle is operated in neutral, and

in the second operating mode, the rollers are driven by the motor vehicle.

16. Road test simulator as claimed in Claim 14, wherein the control unit providing the master function produces a non-zero torque to simulate uphill or downhill driving.